



Thursday, 20 August 1987

- 15:15 Poster Session, Saal 8 (Room 8)
Sources of Volatile Organic Compounds and their Emissions
Co-Chairpersons:
H. Özkaynak, Dr., Cambridge (USA)
M. Sonneborn, Dr., Berlin (D)
Presentations (5 min. each):
● Gustafsson H.N.O.
Proposal of an „Euro Chamber“ for Testing Formaldehyde and Other Indoor Air Pollutants
● Levin H.
A Procedure Used to Evaluate Building Materials and Furnishings for a Large Office Building
● Ohrbach K.-H., Matuschek G., Kettrup A.
Pyrolysis of Polymeric Materials for Construction, Room Decoration and Insulation
● Reist P.C., Reaves J.C., White J.B.
Developmental Status of the Indoor Air Source Emissions Database
● Rothweiler H., Knutti R., Schlatter C.
Formaldehyde in Indoor Air
● Sheldon L.S., Michael L.C., Pellizzari E.D., Wallace L.
Use of a Portable Gas Chromatograph for Identifying Sources of Volatile Organics in Indoor Air
● van der Wal J.F., Moons A.M.M., Steenlage P.K.
Thermal Insulation as a Source of Air Pollution
● White J.B., Leaderer B.P., Boone P.M., Hammond S.K.
Characterization of Particle and Organic Emissions from Unvented Kerosene Space Heaters
● Wolkoff P., Nielsen G.D.
Carbonless Copy Paper as a Potential Non-Building Indoor Irritant
- 16:30 Break
- 17:00 Discussion at Poster Walls (Area A 2)

Tuesday, 18 August 1987

- 11:00 Break
- 11:30 Discussion at Poster Walls (Area D 1)
- 9:45 Poster Session, Saal 10 (Room 10)
Combustion Gases: Analysis and Concentration Levels
Co-Chairpersons:
E. Lahmann, Professor, Berlin (D)
D. Moschandreas, Dr., Chicago (USA)
Presentations (5 min. each):
● Atkins D.H.F., Law D.V.
Indoor-Outdoor Nitrogen Dioxide Concentration Ratios for Homes with Gas and Electric Cooking
● Baker P.E., Cunningham S.J., Becker E.W., Colome S.D., Wilson A.L.
Evaluation of Housing and Appliance Characteristics Associated with Elevated Indoor Levels of Nitrogen Dioxide
● Baker P.E., Cunningham S.J., Becker E.W., Colome S.D., Wilson A.L.
An Overview of the Residential Indoor Air Quality Characterization Study of Nitrogen Dioxide
● Colome S.D., Lambert W.E., Castaneda N.
Performance Characteristics of Palms Diffusion Tubes Used for Measurement of Nitrogen Dioxide Outside Residential Sites
● Colome S.D., Wilson A.L., Becker E.W., Cunningham S.J., Baker P.E.
Analysis of Factors Associated with Indoor Residential Nitrogen Dioxide: Multivariate Regression Results
● Colome S.D., Wilson A.L., Becker E.W., Cunningham S.J., Baker P.E.
Temporal Evaluation of Nitrogen Dioxide in Thirty Seven Residences
● Goldstein I.F., Andrews H., Bodian C., Kelley G.
Variability in Nitrogen Dioxide Readings Within and Between New York Inner-City Apartments
● Hemphill C.P., Ryan P.B., Billick I.H., Nagda N.L., Koontz M.D., Fortmann R.C.
Estimation of Nitrogen Dioxide Concentrations in Homes Equipped with Unvented Gas Space Heaters

2501670119



Tuesday, 18 August 1987

- Kaarakka P., Kanarek M.S., Lawrence J.R.
Assessment and Control of Indoor Air Pollution Resulting from Wood-Burning Appliance Use
- Koontz M.D., Nagda N.L.
Survey of Factors Affecting NO_x Concentrations
- Lebret E., Noy D., Boleij J., Brunekreef B.
Real-time Concentration Measurements of CO and NO_x in Twelve Homes
- Pannwitz K.-H.
Monitoring of Inorganic Air Contaminants in Indoor Environments by Direct Reading Diffusion Tubes
- Stettler J.R., Chang S.-C.
Portable Monitor for the Measurement of Indoor NO_x Concentrations
- Thurston G.D.
A Field Study of Nitrogen Oxide Levels Inside and Outside an International Airport Terminal
- Wilson A.L., Colome S.D., Baker P.E., Cunningham S.J., Becker E.W., Bope W.G.
Comparison of Passive and Chemiluminescence Monitors for Determining One-Week Average Nitrogen Dioxide Concentrations

11:15

Break

11:45

Discussion at Poster Walls (Area C 2)

Plenary Lectures, Saal 3 (Hall 3)

14:00

Air-conditioning: New Horizons - New Opportunities
H. Esdorn, Professor, Berlin (D)

14:30

A Solution to the Sick Building Mystery
P.O. Fanger, Professor, Lyngby (DK)

Thursday, 20 August 1987

15:15

Poster Session, Saal 6 (Room 6)

Ventilation Effectiveness

Co-Chairpersons:
E. Mayer, Dr., Holzkirchen (D)
M. Sandberg, Dr., Gävle (S)

Presentations (5 min. each):

- Bächlin W.
Pressure Inside Buildings - A Dominant Parameter for Calculating Effective Natural Ventilation
- Fail A., Panzhauser E.
Natural Shaft Ventilation - Measurement, Simulation, Contribution to Basic Ventilation
- Fitzner K.
Air Outlets for Displacement Flow and Their Influence on the Flow Pattern With Various Kinds of Heat Sources
- Hain K., Trümper H.
The Relations of Air Humidity in Dwellings at Different Ventilation Systems (Natural & Mechanical)
- Hanssen S.O., Mathisen H.M.
Sick Buildings - A Ventilation Problem?
- Kubo T., Fujii S., Hayakawa I.
On the Performance of Turbulent Airflow Clean Rooms Based on Airborne Particle Counts in a Model Room
- Narasaki M., Yamanaka T., Higuchi M.
Influence of Turbulent Wind on Ventilation
- Niemelä R., Aalto H., Tossavainen A.
Evaluation of Low-Cost Tracer Techniques for Measuring Air Exchange Rates in Buildings
- Norell L.
Conversion of a Natural Draught Ventilation System to Mechanical Exhaust with Heat Pump - A Case Study
- Olsson H.
Increased Ventilation Efficiency in Rooms
- Vercammen M., Leaderer B.P., Dietz R.N.
Influence of Airflow on the Performance of the Perfluorocarbon Tracer Technique for Measuring Ventilation Rates

16:15

Break

16:45

Discussion at Poster Walls (Area G 2)



Tuesday, 18 August 1987

- 15:15 Symposium, Saal 3 (Hall 3)
- Combustion Gases: Characterization and Health Effects**
- Organizer: J. Boleij, Professor, Wageningen (NL)
Chair: K. Maeda, Professor, Tokyo (J)
- Presentations (15 min. each):
- Traynor G.W., Aceti J.C., Apte M.G., Smith B.V., Green L.L., Smith-Reiser A., Novak K.M., Moses D.O.
 - Macromodel for Assessing Indoor Exposures to Combustion-Generated Pollutants
 - Harlos D.P., Spengler J.D., Billick I.
 - Continuous Nitrogen Dioxide Monitoring During Cooking and Commuting: Personal and Stationary Exposures
 - Colome S.D., Lambert W.E., Castaneda N.
 - Determinants of Carbon Monoxide Exposure in Residences of Ischemic Heart Disease Patients
 - Lebret E.
 - Errors in Exposure Variables and Their Role in Obscuring Exposure-Response Relations: The Case of Indoor Exposure to Nitrogen Dioxide and Fine Particles
 - Goldstein I.F., Andrews L.R., Lieber K., Foutrakis G., Kazembe F., Huang P., Hayes C.
 - Acute Exposure to Nitrogen Dioxide and Pulmonary Function
 - Berwick M., Leaderer B.P., Stolwijk J.A.J., Zagraniski R.T.
 - Association between Nitrogen Dioxide Levels and Lower Respiratory Symptoms in Children Exposed to Unvented Combustion Sources
 - Bruneekreef B., Fischer P., Houthuijs D., Remijn B., Boleij J.
 - Health Effects of Indoor NO_x Pollution
- 17:00 Break
- 17:15 Discussion

Thursday, 20 August 1987

- 15:15 Symposium, Saal 7 (Room 7)
- Microbiological Indoor Pollutants: Sources, Characterization and Health Effects**
- Organizer: H. Ruden, Professor/
H.-J. Moriske, Dr., Berlin (D)
Chair: P. Morey, Dr., Golden Valley (USA)
- Presentations (15 min. each):
- Tyndall R.L., Dudney C.S., Hawthorne A.R., Jernigan R., Ironside K., Metler P.
 - Microflora of the Typical Home
 - Morey P., Burge H., Chatigny M., Feeley J., Kreiss K., Otten J., Peterson K.
 - Assessment of Non-Pathogenic Bioaerosols in Indoor Environments
 - Yoshizawa S., Irie T., Sugawara F., Ozawa S., Kohsaka Y., Matsumae A.
 - Microbiological Contamination From Air Conditioning Systems in Japanese Buildings
 - Reponen T., Nevalainen A., Raunema T.
 - Airborne Fungal Spore and Bacteria Levels in Finnish Homes with Different Ventilation Systems
 - Holmberg K.
 - Indoor Mould Exposure and Health Effects
 - Jantunen M.J., Nevalainen A., Rytönen A.-L., Pelikka M., Kalliokoski P.
 - The Effect of Humidification on Indoor Air Fungal Spores Counts in Apartment Building
 - Finnegan M.J., Pickering A.C., Davies P.S., Austwick P.K.C., Warhurst D.C.
 - Amoebae: The Cause of Humidifier Fever?
- 17:00 Break
- 17:30 Discussion



Tuesday, 18 August 1987

| | |
|-------|---|
| 15:15 | Symposium, Saal 4/5 (Room 4/5) Measures to Guarantee Adequate Indoor Air Quality Organizer: P.O. Fanger, Professor, Lyngby (DK) Chair: O. Seppänen, Professor, Helsinki (SF) Presentations (15 min. each): <ul style="list-style-type: none">● Komine H., Yoshizawa S., Tochihara Y., Kimura E., Ohnaka T. The Investigations on IAQ and Subjective Evaluations of Occupants for Indoor Environments in Japanese Office Buildings● Savplainen T., Raunemaa T., Wellman K. Automatic Measurement and Data Collection System on Indoor Air Study at Three Small Housing Flats● Joki M.V., Rohles F.H. Improving Occupant Well-Being with Ionized Air● Lundqvist G.R., Aalykke C. Airborne and Settling Particulates in a Day-Care Institution: Field and Exposure Chamber Studies● Weschler C.J., Shields H.C. A Detailed Study of the Effects of Ventilation, Filtration and Outdoor Air on the Composition of Indoor Air at a Telephone Office Building● Ancker K., Göthe C.J., Bjurström R. A Quantitative Method for Measuring Air Recirculation● Seppänen O.A. Ventilation and Indoor Air Quality● Trepte L., Le Marie A. Minimum Ventilation Rates and Ventilation Strategies |
| 17:15 | Break |
| 17:30 | Discussion |

Thursday, 20 August 1987

| | |
|-------|---|
| 17:00 | Break |
| 17:30 | Discussion |
| 15:15 | Symposium, Saal 4/5 (Room 4/5) Controls: Source Modification and Air Cleaning Organizer: D. Grimsrud, Dr., Berkeley (USA) Chair: J. Sundell, M.Sc., Solna (S) Presentations (15 min. each): <ul style="list-style-type: none">● Godish T., Rouch J. Control of Residential Formaldehyde Levels by Source Treatment● Nazaroff W.W., Cass G.R. Mass-Transfer Aspects of Pollutant Removal at Indoor Surfaces● Klein C.F., Relwani S.M., Moschandreas D.J. Evaluation of a Proprietary Detector as an Indoor Air Quality Sensor● Relwani S.M., Moschandreas D.J., Billick I.H. Indoor Air Quality Control Capabilities of Desiccant Materials● Kettrup A., Klusmeier W., Ohrbach K-H A New Filter System for Indoor Pollutant Separation (Particles, Organic and Inorganic Gases)● Kimmel J. Performance of Electrostatic Precipitators in Restaurants● Sandberg M., Mellin A. Artificial Electrostatic Fields as Air Cleaning Systems in Rooms |
| 17:00 | Break |
| 17:30 | Discussion |